

WEST Search History

DATE: Monday, February 27, 2006

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L71	L70 and ((reus\$3 or recycl\$3 or convert\$3 or conversion or insert\$4) with ((toner) with (cartridge)) with (different or another or second) with (type or kind or model\$3 or device or system or apparatus))	1
<input type="checkbox"/>	L70	L69 and ((drum or shutter or cover or shield\$4) with (arm or support or projection))	8
<input type="checkbox"/>	L69	L68 and ((modify\$3 or modifi\$4 or modification or refurbish\$4 of alter\$3 or adapt\$4 or adjust\$3 or chang\$4 or recycl\$4) with ((toner) with (cartridge)))	9
<input type="checkbox"/>	L68	L67 and ((toner) with (cartridge))	30
<input type="checkbox"/>	L67	l3 and ((remov\$4 or modify\$3 or recycl\$4 or modifi\$4 or modification or refurbish\$4 of alter\$3 or adapt\$4 or adjust\$3 or chang\$4 and remanufactur\$4 or recondition\$4) with ((shutter or shield\$3 or aperature or iris) with (arm or support or chip)))	38
<input type="checkbox"/>	L66	l3 and ((remov\$4 or modify\$3 or modifi\$4 or modification or refurbish\$4 of alter\$3 or adapt\$4 or adjust\$3 or chang\$4 and remanufactur\$4 or recondition\$4) with ((shutter or shield\$3 or aperature or iris) with (arm or support or chip)))	38
<input type="checkbox"/>	L65	L64 and ((drum or shutter or cover or shield\$4) with (arm or support or projection))	0
<input type="checkbox"/>	L64	20040114959	2
<input type="checkbox"/>	L63	L62 and ((drum or shutter or cover or shield\$4) with (arm or support or projection))	1
<input type="checkbox"/>	L62	L61 and ((toner) with (cartridge))	10
<input type="checkbox"/>	L61	L60 and (matthew.in.)	1064
<input type="checkbox"/>	L60	("daniels".in.)	119204
<input type="checkbox"/>	L59	L58 and ((toner) with (cartridge))	9
<input type="checkbox"/>	L58	L57 and ((drum or shutter or cover or shield\$4) with (arm or support or projection))	67
<input type="checkbox"/>	L57	L56 and ((waste or ((used or old or used-up or empty) with toner) or trash or rubbish) with (bin or receptacle or contain\$4 or collection or collect\$3 or device or reservoir))	1517
<input type="checkbox"/>	L56	(daniels.in.)	119204
<input type="checkbox"/>	L55	((reus\$3 or recycl\$3 or convert\$3 or conversion) with ((toner) with (cartridge)) with (different or another) with (type or kind or model\$3))	5
<input type="checkbox"/>	L54	L53 and (model\$3)	7
		L52 and ((waste or ((used or old or used-up or empty) with toner) or trash or	

<input type="checkbox"/>	L53	rubbish) with (bin or receptacle or contain\$4 or collection or collect\$3 or device or reservoir))	97
<input type="checkbox"/>	L52	L51 and ((drum or shutter or cover or shield\$4) with (arm or support or projection))	136
<input type="checkbox"/>	L51	L50 and (arm or support or projection)	157
<input type="checkbox"/>	L50	L49 and (operat\$3 or operation\$4 or function\$4 or work\$4)	190
<input type="checkbox"/>	L49	L48 and ((modify\$3 or modifi\$4 or modification or refurbish\$4 of alter\$3 or adapt\$4 or adjust\$3 or chang\$4 or remanufactur\$4 or recondition\$4 or conver\$4 or convert\$3) with ((toner) with (cartridge)))	195
<input type="checkbox"/>	L48	L47 and ((toner) with (cartridge))	1150
<input type="checkbox"/>	L47	((drum) with (cover\$4 or shutter or shield\$3))	39876
<input type="checkbox"/>	L46	L45 and (jig)	5
<input type="checkbox"/>	L45	L44 and (((toner) with (cartridge)) with ((drum) with (cover\$4 or shutter or shield\$3)))	22
<input type="checkbox"/>	L44	L43 and ((remov\$4 or cut\$4) with (cover\$4 or shutter or shield\$3 or arm or support))	135
<input type="checkbox"/>	L43	L42 and ((drum) with (cover\$4 or shutter or shield\$3))	181
<input type="checkbox"/>	L42	L41 and ((waste or ((used or old or used-up or empty) with toner) or trash or rubbish) with (bin or receptacle or contain\$4 or collection or collect\$3 or device or reservoir))	603
<input type="checkbox"/>	L41	L40 and (toner)	1339
<input type="checkbox"/>	L40	((cartridge) with (recycl\$4 or conver\$4 or refurbish\$4 or remanufactur\$4))	8064
<input type="checkbox"/>	L39	L38 and ((drum) with (cover\$4 or shutter or shield\$3))	3
<input type="checkbox"/>	L38	L37 and ((modify\$3 or modifi\$4 or modification or refurbish\$4 of alter\$3 or adapt\$4 or adjust\$3 or chang\$4 or remanufactur\$4 or recondition\$4) with ((toner) with (cartridge)) with(operat\$4 or function\$4 or work\$4) with (first or primary or initial or type or kind) with (second or secondary or another or type or kind))	30
<input type="checkbox"/>	L37	L36 and ((modify\$3 or modifi\$4 or modification or refurbish\$4 of alter\$3 or adapt\$4 or adjust\$3 or chang\$4 or remanufactur\$4 or recondition\$4) with ((toner) with (cartridge)) with(operat\$4 or function\$4 or work\$4) with (first or primary or initial or type or kind))	46
<input type="checkbox"/>	L36	L35 and ((modify\$3 or modifi\$4 or modification or refurbish\$4 of alter\$3 or adapt\$4 or adjust\$3 or chang\$4 or remanufactur\$4 or recondition\$4) with ((toner) with (cartridge)) with(operat\$4 or function\$4 or work\$4))	188
<input type="checkbox"/>	L35	L34 and (first or primary or initial or second or secondary or another or type or kind)	989
<input type="checkbox"/>	L34	L33 and (first or primary or initial or system or device or apparatus on instrument or printer or copier or xerograp\$4)	1050
<input type="checkbox"/>	L33	L31 and (operat\$3 or operation\$4 or function\$3 or functionable or work\$4)	1060
<input type="checkbox"/>	L32	L31 and (operat\$4 or function\$4 or work\$4)	1058
<input type="checkbox"/>	L31	((modify\$3 or modifi\$4 or modification or refurbish\$4 of alter\$3 or adapt\$4 or adjust\$3 or chang\$4 or remanufactur\$4 or recondition\$4) with ((toner) with (cartridge)))	1326

<input type="checkbox"/>	L30	L29 and (jig)	12
<input type="checkbox"/>	L29	L28 and ((remov\$4 or cut\$4) with (cover\$4 or shutter or shield\$3 or arm or support))	97
<input type="checkbox"/>	L28	L26 and (remov\$4 or cut\$4)	128
<input type="checkbox"/>	L27	L26 and ((mount\$4 or attach\$4 or secur\$3) with (chip))	5
<input type="checkbox"/>	L26	L25 and ((drum) with (cover\$4 or shutter or shield\$3))	129
<input type="checkbox"/>	L25	L17 and ((waste or ((used or old or used-up or empty) with toner) or trash or rubbish) with (bin or receptacle or contain\$4 or collection or collect\$3 or device))	461
<input type="checkbox"/>	L24	L20 and((mount\$4 or attach\$4 or secur\$3) with (chip))	4
<input type="checkbox"/>	L23	L22 and((mount\$4 or attach\$4 or secur\$3) with (chip))	2
<input type="checkbox"/>	L22	L21 and (jig)	6
<input type="checkbox"/>	L21	L20 and (patch\$4 or cover\$4 or fill\$3)	42
<input type="checkbox"/>	L20	L19 and (remov\$4 or hole or mount\$4 or cut\$4 or attach\$4)	43
<input type="checkbox"/>	L19	L18 and ((waste or ((used or old or used-up or empty) with toner) or trash or rubbish) with (bin or receptacle or contain\$4 or collection or collect\$3 or device))	43
<input type="checkbox"/>	L18	L17 and ((shutter or shield\$3 or aperature or iris) with (arm or support or chip))	62
<input type="checkbox"/>	L17	L16 and (drum)	770
<input type="checkbox"/>	L16	L15 and ((modify\$3 or modifi\$4 or modification or refurbish\$4 of alter\$3 or adapt\$4 or adjust\$3 or chang\$4 or remanufactur\$4 or recondition\$4) with ((toner) with (cartridge)))	1326
<input type="checkbox"/>	L15	L2 and (modify\$3 or modifi\$4 or modification or refurbish\$4 of alter\$3 or adapt\$4 or adjust\$3 or chang\$4 or remanufactur\$4 or recondition\$4)	11234
<input type="checkbox"/>	L14	L2 and (modify\$3 or modifi\$4 or modification or refurbish\$4 of alter\$3 or adapt\$4 or adjust\$3 or chang\$4 and remanufactur\$4 or recondition\$4)	9995
<input type="checkbox"/>	L13	L12 and (jig or cutter)	1
<input type="checkbox"/>	L12	L11 and ((shutter or shield\$3 or aperature or iris) with (arm or support or chip))	23
<input type="checkbox"/>	L11	L10 and (arm or support or chip)	78
<input type="checkbox"/>	L10	L8 and ((drum) with (shutter or shield\$3 or aperature or iris))	94
<input type="checkbox"/>	L9	L8 and (shutter or shield\$3 or aperature or iris)	195
<input type="checkbox"/>	L8	L7 and (drum)	576
<input type="checkbox"/>	L7	L6 and (bin or receptacle or contain\$4 or collection or collect\$3 or device)	813
<input type="checkbox"/>	L6	L5 and (waste or ((used or old or used-up or empty) with toner) or trash or rubbish)	847
<input type="checkbox"/>	L5	L4 and ((modify\$3 or modifi\$4 or modification or refurbish\$4 of alter\$3 or adapt\$4 or adjust\$3 or chang\$4) with ((toner) with (cartridge)))	1198
<input type="checkbox"/>	L4	L3 and ((toner) with (cartridge))	7248
<input type="checkbox"/>	L3	L2 and (modify\$3 or modifi\$4 or modification or refurbish\$4 of alter\$3 or adapt\$4 or adjust\$3 or chang\$4)	11176
<input type="checkbox"/>	L2	L1 and (cartridge)	21021

☐ L1 (toner)

223723

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 20040114959 A1

Using default format because multiple data bases are involved.

L64: Entry 1 of 2

File: PGPB

Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040114959

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040114959 A1

TITLE: Method and apparatus for converting toner cartridges to fit various types of printing machines

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Daniels, Matthew P.	Pittsboro	NC	US

US-CL-CURRENT: 399/109

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FWC	Drawings
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☐ 2. Document ID: US 20040114959 A1, US 6904248 B2

L64: Entry 2 of 2

File: DWPI

Jun 17, 2004

DERWENT-ACC-NO: 2004-498213

DERWENT-WEEK: 200609

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TITLE: Xerographic toner cartridge modification method to fit various printer, involves removing one portion of waste bin assembly of toner cartridge, to create plug insertion recess at center portion of assembly

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FWC	Drawings
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[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

Term	Documents
"20040114959"	2

20040114959S	0
"20040114959".PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2
(20040114959).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

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Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20040170445 A1

Using default format because multiple data bases are involved.

L39: Entry 1 of 3

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040170445

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040170445 A1

TITLE: Systems and methods for toner cartridge conversion

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Moore, Darin L.	Morrisville	NC	US
Daniels, Matthew P.	Pittsboro	NC	US

US-CL-CURRENT: 399/109

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Ds
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☐ 2. Document ID: US 20030202823 A1

L39: Entry 2 of 3

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030202823

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030202823 A1

TITLE: Developing apparatus

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Tamura, Masashige	Chiba		JP

US-CL-CURRENT: 399/227

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Ds
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☐ 3. Document ID: US 6987940 B2

L39: Entry 3 of 3

File: USPT

Jan 17, 2006

US-PAT-NO: 6987940

DOCUMENT-IDENTIFIER: US 6987940 B2

TITLE: Developing apparatus

DATE-ISSUED: January 17, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20030202823 A1

October 30, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Tamura; Masashige

Chiba

JP

US-CL-CURRENT: 399/227; 399/119, 399/120, 399/264

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	PMC	Draw. O.
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
DRUM	574122
DRUMS	113011
SHUTTER	194249
SHUTTERS	38106
COVER\$4	0
COVER	2382717
COVERA	1291
COVERAAC	1
COVERAAE	49
COVERAAES	2
COVERAAE:	1
(L38 AND ((DRUM) WITH (COVER\$4 OR SHUTTER OR SHIELD\$3))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	3

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20040170445 A1

Using default format because multiple data bases are involved.

L13: Entry 1 of 1

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040170445

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040170445 A1

TITLE: Systems and methods for toner cartridge conversion

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Moore, Darin L.	Morrisville	NC	US
Daniels, Matthew P.	Pittsboro	NC	US

US-CL-CURRENT: 399/109

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RIIC	Draw D
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Term	Documents
JIG	131474
JIGS	22912
CUTTER	293002
CUTTERS	79044
(12 AND (JIG OR CUTTER)) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	1
(L12 AND (JIG OR CUTTER)) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	1

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[First Hit](#) [Previous Doc](#) [Next Doc](#) [Go to Doc#](#)**End of Result Set**☐ [Generate Collection](#) [Print](#)

L13: Entry 1 of 1

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040170445
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040170445 A1

TITLE: Systems and methods for toner cartridge conversion

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Moore, Darin L.	Morrisville	NC	US
Daniels, Matthew P.	Pittsboro	NC	US

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
Static Control Components, Inc.	Sanford	NC	US	02

APPL-NO: 10/797968 [\[PALM\]](#)
DATE FILED: March 11, 2004

RELATED-US-APPL-DATA:

Application 10/797968 is a continuation-in-part-of US application 10/319088, filed December 14, 2002, PENDING

INT-CL-PUBLISHED: [07] [G03](#) [G](#) [15/00](#)

US-CL-PUBLISHED: 399/109

US-CL-CURRENT: [399/109](#)

REPRESENTATIVE-FIGURES: 4

ABSTRACT:

Techniques for modifying a toner cartridge intended to operate with a first type of imaging device to operate in a second type of imaging device. The toner cartridge includes a drum shutter connected to a waste bin, with the drum shutter including first and second shutter arms. A method of modifying the toner cartridge intended for operation in the first type of imaging device to operate in a second type of imaging device includes removing a portion of the first shutter arm. In another aspect, the method includes removing a portion of the waste bin adjacent to the first shutter arm. In another aspect, the method includes removing a second portion of the waste bin to form a hole in the waste bin and attaching a chip mounting patch to the waste bin to fill the hole. A computer chip may be attached to the chip mounting patch.

[0001] The present application is a continuation-in-part (CIP) of U.S. patent application Ser. No. 10/319,088 entitled "Method and Apparatus For Converting Toner Cartridges to Fit Various Types of Printing Machines" filed on Dec. 14, 2002 and incorporated by reference herein in its entirety.

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Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 20050249522 A1

Using default format because multiple data bases are involved.

L69: Entry 1 of 9

File: PGPB

Nov 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050249522

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050249522 A1

TITLE: Process cartridge for image forming apparatus

PUBLICATION-DATE: November 10, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Park, Jong-Hyun

Gycyang-gu

KR

US-CL-CURRENT: 399/120

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIG	Draw D
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☐ 2. Document ID: US 20050196578 A1

L69: Entry 2 of 9

File: PGPB

Sep 8, 2005

PGPUB-DOCUMENT-NUMBER: 20050196578

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050196578 A1

TITLE: Methods and apparatus for replacing a toner cartridge shutter

PUBLICATION-DATE: September 8, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Weiler, Allan P.

Sanford

NC

US

US-CL-CURRENT: 428/77; 156/94, 428/189

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIG	Draw D
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☐ 3. Document ID: US 20050135836 A1

L69: Entry 3 of 9

File: PGPB

Jun 23, 2005

PGPUB-DOCUMENT-NUMBER: 20050135836

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050135836 A1

TITLE: Methods for printer cartridge conversion

PUBLICATION-DATE: June 23, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Rogers, Justin Lee	Sanford	NC	US
Jones, James H.	Fayetteville	NC	US

US-CL-CURRENT: 399/109

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D.
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☐ 4. Document ID: US 20040170445 A1

L69: Entry 4 of 9

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040170445

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040170445 A1

TITLE: Systems and methods for toner cartridge conversion

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Moore, Darin L.	Morrisville	NC	US
Daniels, Matthew P.	Pittsboro	NC	US

US-CL-CURRENT: 399/109

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D.
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☐ 5. Document ID: US 5960246 A

L69: Entry 5 of 9

File: USPT

Sep 28, 1999

US-PAT-NO: 5960246

DOCUMENT-IDENTIFIER: US 5960246 A

TITLE: Image forming apparatus with powder pump

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kasahara; Nobuo	Yokohama			JP
Muramatsu; Satoshi	Kawasaki			JP
Shibaki; Hiroyuki	Kawasaki			JP

US-CL-CURRENT: 399/359; 399/258, 399/99

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	PMC	Drawings
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☐ 6. Document ID: US 5734953 A

L69: Entry 6 of 9

File: USPT

Mar 31, 1998

US-PAT-NO: 5734953

DOCUMENT-IDENTIFIER: US 5734953 A

TITLE: Detachable toner supply and processing assembly for an image forming apparatus and having a shutter mechanism for toner flow control

DATE-ISSUED: March 31, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tatsumi; Kenzo	Kanagawa-ken			JP

US-CL-CURRENT: 399/262; 399/119

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	PMC	Drawings
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☐ 7. Document ID: US 20050196578 A1

L69: Entry 7 of 9

File: DWPI

Sep 8, 2005

DERWENT-ACC-NO: 2005-655984

DERWENT-WEEK: 200567

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TITLE: Repairing toner cartridge for electrophotographic imaging apparatus, involves securing replacement flexible covering portion of drum shutter to arm element, and attaching the replacement flexible covering portion to toner cartridge body

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	PMC	Drawings
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☐ 8. Document ID: US 20040170445 A1

L69: Entry 8 of 9

File: DWPI

Sep 2, 2004

DERWENT-ACC-NO: 2004-651594
 DERWENT-WEEK: 200609
 COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: Toner cartridge modification method for laser printer, involves removing portion of shutter arm provided in drum shutter connected to waste bin, and portion of waste bin, simultaneously

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	PMC	Draw D.
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☐ 9. Document ID: JP 09090727 A

L69: Entry 9 of 9

File: DWPI

Apr 4, 1997

DERWENT-ACC-NO: 1997-263518
 DERWENT-WEEK: 199724
 COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: Rotating-type toner powder cartridge mounting in image forming device - revolves freely in end cap affixed to support member with opening in end cap to deliver toner powder covered by externally adjustable shutter

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	PMC	Draw D.
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Term	Documents
MODIFICATION	989517
MODIFICATIONS	2497778
OF	756510
OFS	3243
TONER	218039
TONERS	28778
CARTRIDGE	257296
CARTRIDGES	81936
MODIFY\$3	0
MODIFY	353586
(L68 AND ((MODIFY\$3 OR MODIFI\$4 OR MODIFICATION OR REFURBISH\$4 OF ALTER\$3 OR ADAPT\$4 OR ADJUST\$3 OR CHANG\$4 OR RECYCL\$4) WITH ((TONER) WITH (CARTRIDGE)))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	9

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☐ 1. Document ID: US 20050249522 A1

Using default format because multiple data bases are involved.

L70: Entry 1 of 8

File: PGPB

Nov 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050249522

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050249522 A1

TITLE: Process cartridge for image forming apparatus

PUBLICATION-DATE: November 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Park, Jong-Hyun	Gycyang-gu		KR

US-CL-CURRENT: 399/120

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMC	Draw D
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☐ 2. Document ID: US 20050196578 A1

L70: Entry 2 of 8

File: PGPB

Sep 8, 2005

PGPUB-DOCUMENT-NUMBER: 20050196578

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050196578 A1

TITLE: Methods and apparatus for replacing a toner cartridge shutter

PUBLICATION-DATE: September 8, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Weiler, Allan P.	Sanford	NC	US

US-CL-CURRENT: 428/77; 156/94, 428/189

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMC	Draw D
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☐ 3. Document ID: US 20040170445 A1

L70: Entry 3 of 8

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040170445

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040170445 A1

TITLE: Systems and methods for toner cartridge conversion

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Moore, Darin L.	Morrisville	NC	US
Daniels, Matthew P.	Pittsboro	NC	US

US-CL-CURRENT: 399/109

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PMC	Draw D.
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☐ 4. Document ID: US 5960246 A

L70: Entry 4 of 8

File: USPT

Sep 28, 1999

US-PAT-NO: 5960246

DOCUMENT-IDENTIFIER: US 5960246 A

TITLE: Image forming apparatus with powder pump

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kasahara; Nobuo	Yokohama			JP
Muramatsu; Satoshi	Kawasaki			JP
Shibaki; Hiroyuki	Kawasaki			JP

US-CL-CURRENT: 399/359; 399/258, 399/99

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	PMC	Draw D.
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☐ 5. Document ID: US 5734953 A

L70: Entry 5 of 8

File: USPT

Mar 31, 1998

US-PAT-NO: 5734953

DOCUMENT-IDENTIFIER: US 5734953 A

TITLE: Detachable toner supply and processing assembly for an image forming apparatus and having a shutter mechanism for toner flow control

DATE-ISSUED: March 31, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tatsumi; Kenzo	Kanagawa-ken			JP

US-CL-CURRENT: 399/262; 399/119

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 6. Document ID: US 20050196578 A1

L70: Entry 6 of 8

File: DWPI

Sep 8, 2005

DERWENT-ACC-NO: 2005-655984

DERWENT-WEEK: 200567

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TITLE: Repairing toner cartridge for electrophotographic imaging apparatus, involves securing replacement flexible covering portion of drum shutter to arm element, and attaching the replacement flexible covering portion to toner cartridge body

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 7. Document ID: US 20040170445 A1

L70: Entry 7 of 8

File: DWPI

Sep 2, 2004

DERWENT-ACC-NO: 2004-651594

DERWENT-WEEK: 200609

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TITLE: Toner cartridge modification method for laser printer, involves removing portion of shutter arm provided in drum shutter connected to waste bin, and portion of waste bin, simultaneously

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 8. Document ID: JP 09090727 A

L70: Entry 8 of 8

File: DWPI

Apr 4, 1997

DERWENT-ACC-NO: 1997-263518

DERWENT-WEEK: 199724

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TITLE: Rotating-type toner powder cartridge mounting in image forming device - revolves freely in end cap affixed to support member with opening in end cap to deliver toner powder covered by externally adjustable shutter

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	ENIC	Draw. U
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Term	Documents
DRUM	574122
DRUMS	113011
SHUTTER	194249
SHUTTERS	38106
COVER	2382717
COVERS	680272
ARM	1526290
ARMS	915547
SUPPORT	3636290
SUPPORTS	1240651
(L69 AND ((DRUM OR SHUTTER OR COVER OR SHIELD\$4) WITH (ARM OR SUPPORT OR PROJECTION))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	8

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☐ 1. Document ID: US 20040170445 A1

Using default format because multiple data bases are involved.

L71: Entry 1 of 1

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040170445

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040170445 A1

TITLE: Systems and methods for toner cartridge conversion

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Moore, Darin L.	Morrisville	NC	US
Daniels, Matthew P.	Pittsboro	NC	US

US-CL-CURRENT: 399/109

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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Term	Documents
CONVERSION	1005037
CONVERSIONS	59415
TONER	218039
TONERS	28778
CARTRIDGE	257296
CARTRIDGES	81936
DIFFERENT	4793476
DIFFERENTS	294
ANOTHER	13
ANOTHERS	117
SECOND	6489327

(L70 AND ((REUS\$3 OR RECYCL\$3 OR CONVERT\$3 OR CONVERSION OR INSERT\$4) WITH ((TONER) WITH (CARTRIDGE)) WITH (DIFFERENT OR ANOTHER OR SECOND) WITH (TYPE OR KIND OR MODEL\$3 OR DEVICE OR SYSTEM OR APPARATUS))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1
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